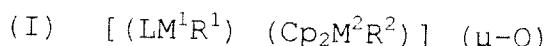


ABSTRACT

The novel binuclear, oxygen-bridged, bimetallic complexes of the general formula (I):



are suitable as polymerization catalysts for olefin polymerization. ($M^1 = Al, Ge, Zr, or Ti; M^2 = Zr, Ti, or Hf; Cp = cyclopentadienyl; R^1, R^2 = H, methyl, ethyl, i-propyl, t-butyl, halogen, phenyl, alkylphenyl, SiMe_3; L = a bidentate, doubly heteroatom-coordinated organic chemical ligand, which together with the metal M^1 forms a 5 or 6-membered ring.) They display very good catalytic activities, good operating lives, and require little cocatalyst.$

(Figure 3)